



Software Engineering With Computational Intelligence

**Hamid R. Arabnia, Leonidas
Deligiannidis, Fernando G.
Tinetti, Quoc-Nam Tran**



Software Engineering With Computational Intelligence:

Software Engineering with Computational Intelligence Jonathan Lee, 2003-03-19 This edited book invites the reader to explore how the latest technologies developed in computational intelligence can be extended and applied to software engineering. Leading experts demonstrate how this recent confluence of software engineering and computational intelligence provides a powerful tool to address the increasing demand for complex applications in diversified areas, the ever increasing complexity and size of software systems, and the inherently imperfect nature of the information. The presented treatments to software modeling and formal analysis permit the extension of computational intelligence to various phases in software life cycles such as managing fuzziness resident in the requirements, coping with fuzzy objects and imprecise knowledge, and handling uncertainty encountered in quality prediction.

Computational Intelligence in Software Engineering Witold Pedrycz, James F. Peters, 1998 This unique volume is the first publication on software engineering and computational intelligence. CI is viewed as a synergistic interplay of neurocomputing, granular computation including fuzzy sets and rough sets, and evolutionary methods. It presents a unified view of CI in the context of software engineering. The book addresses a number of crucial issues: what is CI, what role does it play in software development, how are CI elements built into successive phases of the software life cycle, and what is the role played by CI in quantifying fundamental features of software artifacts. With contributions from leading researchers and practitioners, the book provides the reader with a wealth of new concepts and approaches, complete algorithms in depth, case studies, and thought provoking exercises. The topics covered include neurocomputing, granular, as well as evolutionary computing, object oriented analysis and design in software engineering. There is also an extensive bibliography.

Computational Intelligence in Software Engineering Witold Pedrycz, Mehmet Aksit, 2004

Computational Intelligence and Quantitative Software Engineering Witold Pedrycz, Giancarlo Succi, Alberto Sillitti, 2016-01-14 In a down to the earth manner, the volume lucidly presents how the fundamental concepts, methodology, and algorithms of Computational Intelligence are efficiently exploited in Software Engineering and opens up a novel and promising avenue of a comprehensive analysis and advanced design of software artifacts. It shows how the paradigm and the best practices of Computational Intelligence can be creatively explored to carry out comprehensive software requirement analysis, support design, testing, and maintenance. Software Engineering is an intensive knowledge based endeavor of inherent human centric nature which profoundly relies on acquiring semiformal knowledge and then processing it to produce a running system. The knowledge spans a wide variety of artifacts from requirements captured in the interaction with customers to design, practices, testing, and code management strategies which rely on the knowledge of the running system. This volume consists of contributions written by widely acknowledged experts in the field who reveal how the Software Engineering benefits from the key foundations and synergistically existing technologies of Computational Intelligence, being focused on knowledge representation, learning mechanisms, and population based global optimization strategies. This book

can serve as a highly useful reference material for researchers software engineers and graduate students and senior undergraduate students in Software Engineering and its sub disciplines Internet engineering Computational Intelligence management operations research and knowledge based systems *Computational Intelligence Techniques and Their Applications to Software Engineering Problems* Ankita Bansal, Abha Jain, Sarika Jain, Vishal Jain, Ankur Choudhary, 2020-09-27

Computational Intelligence Techniques and Their Applications to Software Engineering Problems focuses on computational intelligence approaches as applicable in varied areas of software engineering such as software requirement prioritization cost estimation reliability assessment defect prediction maintainability and quality prediction size estimation vulnerability prediction test case selection and prioritization and much more The concepts of expert systems case based reasoning fuzzy logic genetic algorithms swarm computing and rough sets are introduced with their applications in software engineering The field of knowledge discovery is explored using neural networks and data mining techniques by determining the underlying and hidden patterns in software data sets Aimed at graduate students and researchers in computer science engineering software engineering information technology this book Covers various aspects of in depth solutions of software engineering problems using computational intelligence techniques Discusses the latest evolutionary approaches to preliminary theory of different solve optimization problems under software engineering domain Covers heuristic as well as meta heuristic algorithms designed to provide better and optimized solutions Illustrates applications including software requirement prioritization software cost estimation reliability assessment software defect prediction and more Highlights swarm intelligence based optimization solutions for software testing and reliability problems *Computational Intelligence Applications for Software Engineering Problems* Parma Nand, Nitin Rakesh, Arun Prakash Agrawal, Vishal Jain, 2023-02-10

This new volume explores the computational intelligence techniques necessary to carry out different software engineering tasks Software undergoes various stages before deployment such as requirements elicitation software designing software project planning software coding and software testing and maintenance Every stage is bundled with a number of tasks or activities to be performed Due to the large and complex nature of software these tasks can become costly and error prone This volume aims to help meet these challenges by presenting new research and practical applications in intelligent techniques in the field of software engineering Computational Intelligence Applications for Software Engineering Problems discusses techniques and presents case studies to solve engineering challenges using machine learning deep learning fuzzy logic based computation statistical modeling invasive weed meta heuristic algorithms artificial intelligence the DevOps model time series forecasting models and more Computational Intelligence in Software Modeling Vishal Jain, Jyotir Moy Chatterjee, Ankita Bansal, Utku Kose, Abha Jain, 2022-02-21

Researchers academicians and professionals expone in this book their research in the application of intelligent computing techniques to software engineering As software systems are becoming larger and complex software engineering tasks become increasingly costly and prone to errors Evolutionary

algorithms machine learning approaches meta heuristic algorithms and others techniques can help the efficiency of software engineering

Computational Intelligence in Software Quality Assurance Scott Dick, Abraham Kandel, 2005 Software systems surround us Software is a critical component in everything from the family car through electrical power systems to military equipment As software plays an ever increasing role in our lives and livelihoods the quality of that software becomes more and more critical However our ability to deliver high quality software has not kept up with those increasing demands The economic fallout is enormous the US economy alone is losing over US 50 billion per year due to software failures This book presents new research into using advanced artificial intelligence techniques to guide software quality improvements The techniques of chaos theory and data mining are brought to bear to provide new insights into the software development process Written for researchers and practitioners in software engineering and computational intelligence this book is a unique and important bridge between these two fields

Artificial Intelligence Applications for Improved Software Engineering Development: New Prospects Meziane, Farid, Vadera, Sunil, 2009-07-31 This book provides an overview of useful techniques in artificial intelligence for future software development along with critical assessment for further advancement Provided by publisher

Artificial Intelligence Methods For Software Engineering Meir Kalech, Rui Abreu, Mark Last, 2021-06-15 Software is an integral part of our lives today Modern software systems are highly complex and often pose new challenges in different aspects of Software Engineering SE Artificial Intelligence AI is a growing field in computer science that has been proven effective in applying and developing AI techniques to address various SE challenges This unique compendium covers applications of state of the art AI techniques to the key areas of SE design development debugging testing etc All the materials presented are up to date This reference text will benefit researchers academics professionals and postgraduate students in AI machine learning and software engineering Related Link s

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2010 Roger Lee, 2010-10-01 The purpose of the 11 Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2010 held on June 9 11 2010 in London United Kingdom was to bring together researchers and scientists businessmen and entrepreneurs teachers and students to discuss the numerous fields of computer science and to share ideas and information in a meaningful way Our conference officers selected the best 15 papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rounds of rigorous review In Chapter 1 Cai Luyuan et al Present a new method of shape decomposition based on a refined morphological shape decomposition process In Chapter 2 Kazunori Iwata et al propose a method for reducing the margin of error in effort and error prediction models for embedded software development projects using artificial neural networks ANNs In Chapter 3 Viliam imko et al describe a model driven tool that allows system code to be generated from use cases in plain English In Chapter 4 Abir Smiti and Zied

Elouedi propose a Case Base Maintenance CBM method that uses machine learning techniques to preserve the maximum competence of a system In Chapter 5 Shagufta Henna and Thomas Erlebach provide a simulation based analysis of some widely used broadcasting schemes within mobile ad hoc networks MANETs and propose adaptive extensions to an existing broadcasting algorithm

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing Roger Lee, 2014-09-02 This edited book presents scientific results of 15th IEEE ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2014 held on June 30 July 2 2014 in Las Vegas Nevada USA The aim of this conference was to bring together scientists engineers computer users and students to share their experiences and exchange new ideas research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected the 13 outstanding papers from those papers accepted for presentation at the conference

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2012 Roger Lee, 2012-08-14 The purpose of the 13th International Conference on Computer and Information Science SNPD 2012 held on August 8 10 2012 in Kyoto Japan was to bring together researchers and scientists businessmen and entrepreneurs teachers and students to discuss the numerous fields of computer science and to share ideas and information in a meaningful way Our conference officers selected the best 17 papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rounds of rigorous review The conference organizers selected 17 outstanding papers from SNPD 2012 all of which you will find in this volume of Springer's Studies in Computational Intelligence

Software Engineering Research, Management and Applications 2012 Roger Lee, 2012-05-24 The series Studies in Computational Intelligence SCI publishes new developments and advances in the various areas of computational intelligence quickly and with a high quality The intent is to cover the theory applications and design methods of computational intelligence as embedded in the fields of engineering computer science physics and life science as well as the methodologies behind them The series contains monographs lecture notes and edited volumes in computational intelligence spanning the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems Critical to both contributors and readers are the short publication time and world wide distribution this permits a rapid and broad dissemination of research results The purpose of the 10th International Conference on Software Engineering Research Management and Applications SERA 2012 held on May 3 June 1 2012 in Shanghai China was to bring together scientists engineers computer users and students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of Software Engineering Research Management and Applications and

to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected 12 outstanding papers from those papers accepted for presentation at the conference in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and further rigorous rounds of review

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2011 Roger Lee,2013-08-03 The purpose of the 12th Conference Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2011 held on July 6 8 2011 in Sydney Australia was to bring together scientists engineers computer users and students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of computer and information sciences and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The conference organizers selected 14 outstanding papers from SNPD 2011 all of which you will find in this volume of Springer s Studies in Computational Intelligence

Advances in Software Engineering, Education, and e-Learning Hamid R. Arabnia, Leonidas Deligiannidis, Fernando G. Tinetti, Quoc-Nam Tran, 2021-09-09 This book presents the proceedings of four conferences The 16th International Conference on Frontiers in Education Computer Science and Computer Engineering STEM FECS 20 The 16th International Conference on Foundations of Computer Science FCS 20 The 18th International Conference on Software Engineering Research and Practice SERP 20 and The 19th International Conference on e Learning e Business Enterprise Information Systems Includes the tracks Computer Engineering STEM Foundations of Computer Science Software Engineering Research and e Learning e Business Enterprise Information Systems Features papers from FECS 20 FCS 20 SERP 20 EEE 20 including one open access chapter

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Handbook on Artificial Intelligence-Empowered Applied Software Engineering Maria Virvou, George A. Tsihrintzis, Nikolaos G. Bourbakis, Lakhmi C. Jain, 2022-10-17 Evolving technological advancements in big

data smartphone and mobile software applications the Internet of Things and a vast range of application areas in all sorts of human activities and professions lead current research toward the efficient incorporation of artificial intelligence enhancements into software and the empowerment of software with artificial intelligence The book at hand devoted to Smart Software Applications in Cyber Physical Systems constitutes the second volume of a two volume Handbook on Artificial Intelligence empowered Applied Software Engineering Topics include very significant advances in Smart Software Applications in i Scientific Document Processing ii Enterprise Modeling iii Education iv Health care and Medicine and v Infrastructure Monitoring Professors researchers scientists engineers and students in artificial intelligence software engineering and computer science related disciplines are expected to benefit from it along with interested readers from other disciplines

Software and Network Engineering Roger Lee, 2014-05-09 The series Studies in Computational Intelligence SCI publishes new developments and advances in the various areas of computational intelligence quickly and with a high quality The intent is to cover the theory applications and design methods of computational intelligence as embedded in the fields of engineering computer science physics and life science as well as the methodologies behind them The series contains monographs lecture notes and edited volumes in computational intelligence spanning the areas of neural networks connectionist systems genetic algorithms evolutionary computation artificial intelligence cellular automata self organizing systems soft computing fuzzy systems and hybrid intelligent systems Critical to both contributors and readers are the short publication time and world wide distribution this permits a rapid and broad dissemination of research results The purpose of the first ACIS International Symposium on Software and Network Engineering held on December 19 20 2012 on the Seoul National University campus Seoul Korea is to bring together scientist engineers computer users students to share their experiences and exchange new ideas and research results about all aspects theory applications and tools of software network engineering and to discuss the practical challenges encountered along the way and the solutions adopted to solve them The symposium organizers selected the best 12 papers from those papers accepted for presentation at the symposium in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review The symposium organizers selected the best 12 papers from those papers accepted for presentation at the symposium in order to publish them in this volume The papers were chosen based on review scores submitted by members of the program committee and underwent further rigorous rounds of review

Artificial intelligence & software engineering Derek Partridge, 1988

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